

SECRET

22 November 1955

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MEMORANDUM FOR: AC/TSS/TECHNICAL AIDS

THRU: AC/TSS/RESEARCH AND DEVELOPMENT

SUBJECT: Future Action to be taken by APD on Counting Devices

REFERENCE: FJAA-4792 dated 15 September 1955

1. It is requested that APD be advised what future action to take with regard to the subject devices manufactured in Japan under the direction of [REDACTED]. In the referenced dispatch, it was indicated that a quantity of these devices could be field manufactured in Japan for Agency use.

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2. The device is designed to be incorporated into a circuit which is frequently or occasionally turned on and off. The device can be made to activate an electric switch and thus energize a circuit after a selected number of on-off cycles has occurred in the external circuit in which the device is inserted. The device is adapted for use in a 6 volt D.C. system or for use in a 110 volt A.C. system.

3. Examination of prototype units by APD indicated the following:

a. The device is reliably operable only when placed on one of its six surfaces.

b. The device is fragile; it will not take rough handling.

c. Up to 90 counts are possible.

d. The device is not reliable. It is necessary to test the circuit to be energized to assure that there is an open circuit immediately prior to hookup. It might be added that once the circuitry has been connected the device should not be allowed to fall or suffer shock as the relay contacts are fragile and could conceivably close under shock.

e. One of the three devices received by APD was improperly manufactured. The spaces on the counter axle was not made long enough and consequently the ten's digit counter did not engage its gear train at all times.

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4. Recommendations for further action should include required operational characteristics and details of the kind of Agency application to which such a device would be put.

5. The referenced dispatch and two of the subject devices are available at APD. Any additional information in regard to this item may be ascertained from [redacted]

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[redacted]
C/TSS/APD

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Distribution:

Orig. & 1 - Addressee

1 - TSS/SEB

3 - TSS/APD

TSS/APD [redacted] (22 Nov 55)

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